### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: DAVID R. HECKADON

TOWNSEND AND TOWNSEND AND CREW LLP TWO EMBACK.)DERO CENTER #TH FLOOR SAN FRANCISCO, CA 94111-3834	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)		
	Date of Mailing (day/month/year) 18 OCT 2001		
Applicant's or agent's file reference 18608-50PC	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No.	International filing date		
PCT/US01/18606	(day/month/year) ON JUNE 2001		
Applicant NUVASIVE, INC.			
1. X The applicant is hereby notified that the internation	al search report has been established and is transmitted herewith		
Filing of amendments and statement under Articl	e 19: the claims of the international application (see Rule 16).		
When? The time limit for filing such amendm	ents is normally 2 months from the date of transmittal of the more details, see the notes on the accompanying sheet.		
Where? Directly to the International Bureau of 34, chemin des Colombet 1211 Geneva 20, Switzer Facsimile No.: (4-124) 74	WIPO tes land		
For more detailed instructions, see the notes on			
2. The applicant is hereby notified that no international Article 17(2)(a) to that ellect is transmitted herewith	I search report will be established and that the declaration under.		
3. With regard to the protest against payment of (an)	additional fee(s) under Rule 40.2, the applicant is notified that:		
	has been transmitted to the International Bureau together with of both the protest and the decision thereon to the designated		
no decision has been made yet on the protest;	the applicant will be notified as soon as a decision is made.		
4. Further action(s): . The applicant is reminded of the following	•		
If the applicant wishes to avoid or postpone publication	ational application will be published by the International Bureau, a, a notice of withdrawal of the international application, or of the provided in rules 90 bis 1 and 90 bis 3, respectively, before the nal publication.		
	ternational preliminary examination must be liled if the applican ntil 30 months from the priority date (in some Offices even later)		
Within 20 months from the priority date, the applicant m before all designated Offices which have not been elect priority date or could not be elected because they are	ust perform the prescribed acts for entry into the national phase ed in the demand or in a later election within 19 months from the not bound by Chapter 11.		
Name and mailing address of the ISA/US	Authorized officer		
Commissioner of Patents and Trademarks	CHARLES MARMOR, II DIGNE Smith 1		
Roy PCT' Washington, D.C. 20231	, , ,		

### PATENT COOPERATION TREATY

### **PCT**

### INTERNATIONAL SEARCH REPORT

Applicant's or agent's file reference

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 18G08-50PC		see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/US01/18606	08 JUNE 2001	08 JUNE 2000			
Applicant NUVASIVE, INC.					
according to Article 18. A copy is being	n prepared by this International Searching Aug g transmitted to the International Bureau.	thority and is transmitted to the applicant			
This international search report consist	ts of a total of 🛨 sheets.				
X It is also accompanied by a c	opy of each prior art document cited in this r	eport.			
t. Basis of the report					
	he international search was carried out on the l	pasis of the international application in the			
	unless otherwise indicated under this item. carried out on the basis of a translation of the	ne international application furnished to this			
Authority (Rule 23.1(b)).					
<ul> <li>With regard to any nucleotide was carried out on the basis of</li> </ul>		international application, the international search			
contained in the internation	al application in written form.				
filed together with the inter	national application in computer readable for	m.			
furnished subsequently to the furnished subsequently to the the statement that the subside the statement that	is Authority in written form.				
furnished subsequently to this Authority in computer readable form.					
the statement that the sub-	equently furnished written sequence listing	does not go beyond the disclosure			
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
2. Certain claims were found	unsearchable (See Box I).				
Unity of invention is lacking	ig (See Box II).				
4. With regard to the title,					
X the text is approved as subm	nitted by the applicant.				
the text has been established	d by this Authority to read as follows:				
5. With regard to the abstract,					
the text is approved as subn	nitted by the applicant.				
X the text has been established	I, according to Rule 38.2(b), by this Authority				
6. The figure of the drawings to be pu	blished with the abstract is Figure No. 2	-			
X as suggested by the applicar		None of the figures.			
because the applicant failed					
because this figure better ch					
Form PCT/ISA/210 (first sheet) (July 19	98}≉				

INTERNATIONAL SEARCH REPORT

International application No. PCT/US01/18606

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

#### NEW ABSTRACT

A method and system for detecting the proximity of a nerve to a proximity electrode and the status of the nerve. The method of detecting the status of the nerve (30) includes the steps of placing an electrode near the nerve (32); providing an electrical signal having varying current levels to the electrode (34) to stimulate the nerve; measuring an EMG response of the nerve for the applied current (36); mapping the EMG responses (38) of the nerve for the applied electrical signal for a fixed latency; and determining the status of the nerve based on the mapping of the responses (42).

### INTERNATIONAL SEARCH REPORT

International application No.

	SSIFICATION OF SUBJECT MATTER				
	:A61B 5/04 :600/546				
According	to International Patent Classification (IPC) or to both	national classification and IPC			
	DS SEARCHED				
	ocumentation searched (classification system followed	by classification symbols)			
U.S. :	600/546, 547, 548, 554; 607/72, 115, 116, 117, 118				
Documenta searched	tion searched other than minimum documentation to	the extent that such documents are i	ncluded in the fields		
	data base consulted during the international search (na E Extra Sheet.	ame of data base and, where practicable	r, search terms used)		
c. Doc	UMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.		
X	US 5,775,331 A (RAYMOND et al) 07 July 1998, see entire document.		1, 20, 30, 53		
A	·		2-19, 21-29, 31- 52, 54-64		
x	US 5,284,154 A (RAYMOND et al) 0 document.	1, 20, 30, 53			
A	US 5,851,191 A (GOZANI) 22 D document.	ecember 1998, see entire	1-64		
A	US 4,962,766 A (HERZON) 16 October 1990, see entire document.		1-64		
Further documents are listed in the continuation of Box C. See patent family annex.					
Special categories of cited documents:  At document defining the general state of the art which is not the property underlying the sense of the property date and not in conflict with the application but cited to understand the principle or the local underlying the sense.					
considered to be of particular relevance.  The carfier document published on or after the international fling date.  Accument which may throw doubts on princing claim(s) on which is  the document which may throw doubts on princing claim(s) on which is  the considered more accument to form above.					
cited to establish the publication date of another citation or other  special reason (as specified)  document of particular relevances the c'aimed invention cannot be considered to involve an inventive step when the document in					
me Tr Joe	O' decorrent referring to an oral disclosure, one, exhibition or other combined with one or more either such documents, such combination thermal person skilled in the attention to a person skilled				
than the priority date channed  Date of the actual completion of the international search  Date of mailing of the international search report					
23 AUGU		18 OCT 2			
Commission	nailing address of the ISA/US her of Patents and Trademarks	Authorized officer			
Box PCT Washington	n D.C. onest	CHARLES MARMOR, II DIG	ine smith for		

### INTERNATIONAL SEARCH REPORT

International application No. PCT/US01/18606

B.	FI	El.	DS	SEA	P	CL	r

Electronic data bases consulted (Name of data base and where practicable terms used):

#### FAST

search terms: nerve, status, health, condition, proximity, approach\$, locats, stimulation, electrical, current, EMG, electromyogra\$, neuro-muscular, response, map, graph, plot, peaks, latency

Form PCT/ISA/#10 /extra cheer) (Into 1000).

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patient Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be senenced during the international preliminary examination procedure, there is usually no need to file mendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another resund for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

### What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter II.

When ? Within 2 months from the date of transmittal of the international search report or 16 months from the priority dete, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received by are moreived by the international Berness after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

### Where not to hie the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A repiscement short must be submitted for each short of the claims which, on account of an amendment or amendments, differs from the short originally filed.

All the claims appearing on a replacement about must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be resumbered consocurity of, definitionative instructions, Section 205(6)).

### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.